PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	AAAAAAA AAAAAAA AAAAAAA		2222222222 22222222222	ннн ннн ннн	ннн ннн ннн
PPP PPP	AAA AAA	TTT	CCC	ННН	ннн
PPP PPP	AAA AAA	İİİ	ČČČ	ННН	ннн
PPP PPP	AAA AAA	ŤŤŤ	ČČČ	HHH	ННН
PPP PPP	AAA AAA	ŤŤŤ	ČČČ	нин	ннн
PPP PPP	AAA AAA	ŤŤŤ	ČČČ	ННН	ННН
PPP PPP	AAA AAA	İİİ	ČČČ	ннн	ннн
PPPPPPPPPPPP	AAA AAA	tit	ČČČ	нинининини	
PPPPPPPPPPP	AAA AAA	İİİ	ČČČ	нинининини	
PPPPPPPPPPP	AAA AAA	ŤŤŤ	ČČČ	нинининини	
PPP	AAAAAAAAAAAAA	iii	ČČČ	ннн	ннн
PPP	AAAAAAAAAAAAA	tit	ČČČ	ННН	ннн
PPP	AAAAAAAAAAAA	ŤŤŤ	ČČČ	ННН	ннн
PPP	AAA AAA	tit	ČČČ	ННН	ннн
PPP	AAA AAA	tit	ČČČ	ННН	ннн
PPP	AAA AAA	iii	ČČČ	ннн	ннн
PPP	AAA AAA	İİİ	CCCCCCCCCC	ННН	ннн
PPP	AAA AAA	iii	2222222222	ннн	ннн
PPP	AAA AAA	iii	2222222222	нин	ннн

XX XX XX

XX

XX

XX

XX

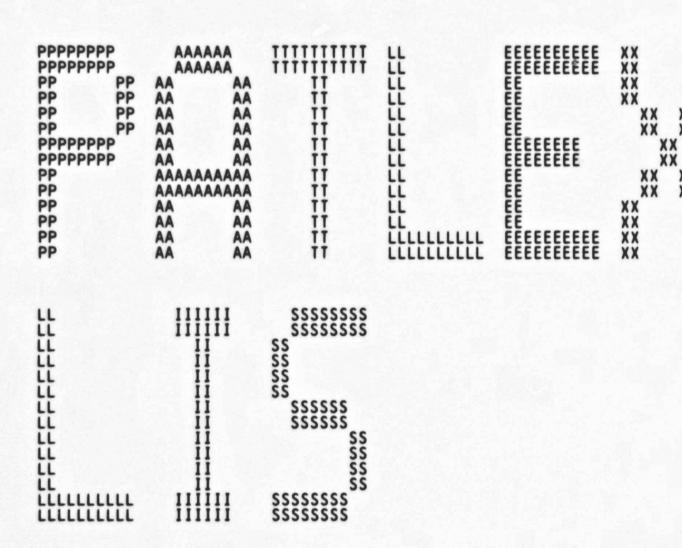
XX

....

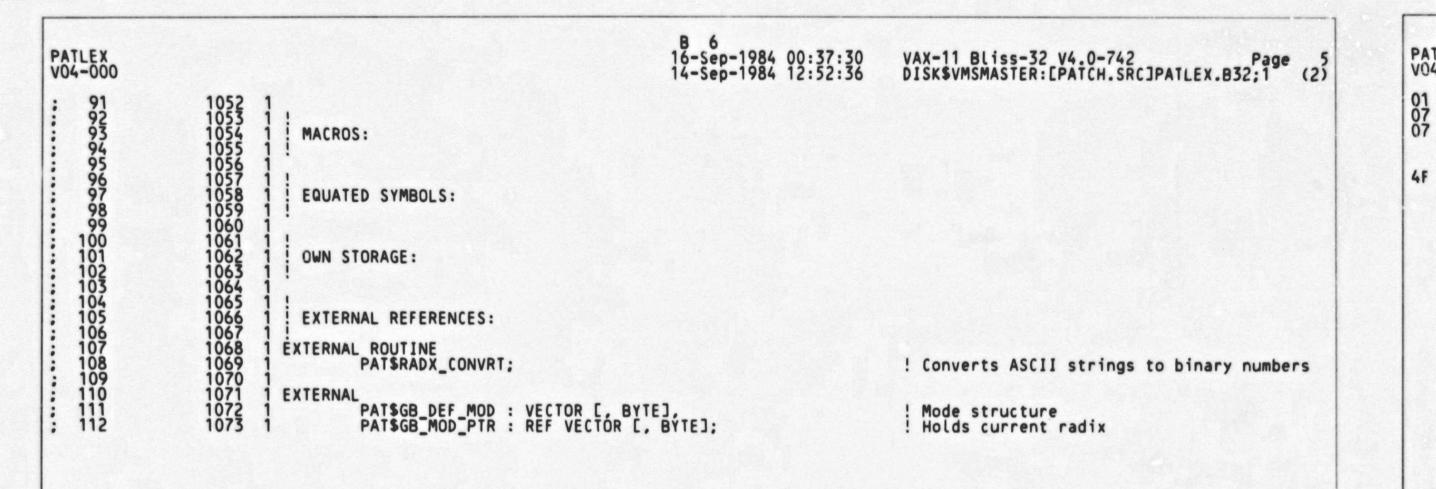
....

....

....



PATLEX VO4-000						L 5 16-Sep-1984 00:37:30 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 12:52:36 DISK\$VMSMASTER:[PATCH.SRC]PATLEX.B32;1 (
58	0058 1 !	05	26-APR-78	K.D.	MORSE	INCLUDE CODE TO HANDLE KEYWORDS
; 60	0060 1	06	02-MAY-78	K.D.	MORSE	BEGINNING WITH A PERIOD. CHANGE RETURNED TOKEN TYPE FROM
62 63	0062 1 1 0063 1	07 08	17-MAY-78 18-MAY-78	K.D.	MORSE MORSE	ALPHA TO ALPHA_STR_TOKEN. NO CHANGES FOR VERS 21. NO CHANGES FOR VERS 22-23. DBGLEX.B32 BECAME DBGMAR.B32.
64 65 66 67	0058 1 0059 1 0060 1 0062 1 0063 1 0065 1 0066 1 0067 1 0068 1 0069 1	09 10 11	18-MAY-78 13-JUN-78 27-JUN-78	K.D. K.D.	MORSE	NO CHANGES FOR VERS 24. ADD FAO COUNT TO SIGNALS. NO CHANGES FOR VERS 25.



4F

Side effects:

none

PAT VO

```
PA
```

```
D 6
16-Sep-1984 00:37:30
14-Sep-1984 12:52:36
PATLEX
VO4-000
                                                                                                                                     VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER:[PATCH.SRC]PATLEX.B32;1
                                    !--
    BEGIN
                                    LITERAL
                                                                        = 9 :
                                                table_offset
                                                operator_max
                                   BIND
                                                token_table = UPLIT BYTE (
                                                                                    op_paren_token,
cl_paren_token,
plus_token,
minus_token,
slash_token,
colon_token,
semi_colo_token,
                                                                                     quote_token,
                                                                                    up_arrow_token,
backslash_token,
at_sign_token,
period_token,
asterisk_token,
                                                                                    langle_token,
rangle_token,
comma_token,
equals_token,
                                                                                     lsquare_token,
                                                                                     rsquare_token,
                                                                                     hash_token
                                                                                                             ) : VECTOR [, BYTE];
                                   LITERAL
                                                                                                                                        index ranges from 0 to 4 invalid character seen
                                                max_state_index =
invalid_state =
                                                                                                                                        alphabetic string expected
                                                alpha_state
                                                                         =
                                                                                                                                        numeric string expected logical end of line or error seen
                                                numeric_state
                                                eol_token_state = radix_state =
                                                                        = 4;
                                                                                                                                        radix setting expected
                                                                                                                                        unspecified state, probably special charac
                                                unspec_state
                        1171
1172
1173
1174
1175
1176
1177
                                   BIND
                                                                         = UPLIT (
                                                lex_type_tbl
                                                                                     mask (illegal)
                                                                                     mask (alpha, alpha_low, alpha_and_hex, alphalo_and_hex, period),
                                                                                     mask (numeric),
                                                                                     mask (ind_comment, end_of_line),
                                                                                     mask (up_arrow)
                                                                                                                         ) : VECTOR;
                        1180
1181
1182
1183
1184
1185
                                    BIND
                                                                        = UPLIT BYTE (
                                                lex_state_tbl
                                                                                                 invalid_state, alpha_state,
                                                                                                 numeric_state
                                                                                                 eol_token_state,
                                                                                                 radix_state
```

```
E 6
16-Sep-1984 00:37:30
14-Sep-1984 12:52:36
PATLEX
VO4-000
                                                                                                                               VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER:[PATCH.SRC]PATLEX.B32;1
                       ) : VECTOR [, BYTE];
    LITERAL
                                              radix_max
                                                                     = 3:
                                                                                                                               ! maximum number of MARS radices
                                  BIND
                                              radix_equiv_tbl = UPLIT BYTE (
                                                                                            'B', binary_radix,
'O', octal_radix,
'D', decimal_radix
                                                                                            'D', decimal radix, 'X', hex_radix
                                                                                                                   ) : BLOCK [, WORD];
                                  MACRO
                                              radix_char
                                                                                                                                 radix ASCII character
                                              radix_equiv
                                                                                                                                ! radix equivalent
                                  MAP
                                              input_stg_desc : REF BLOCK [, BYTE],
lexeme_stg_desc : REF BLOCK [, BYTE];
                                                                                                                               ! input string descriptor
                                                                                                                               ! lexeme string descriptor
                                  LOCAL
                                              input_ptr,
                                                                                                                                  character pointer for input
                                                                                                                                  character pointer for lexeme
                                              lexeme_ptr,
                                              previous radix, state_index,
                                                                                                                                  current local radix
                                                                                                                                  index into lex_state_tbl
current state of lexical processor
                                              state,
                                                                                                                                  holds a single character
                                              char.
                                                                                                                                  counts characters used
                                              count;
                                  LABEL
                                              alpha_block, radix_block;
                                                                                                                                  label for alpha case in the select
                                                                                                                                ! label for up arrow case in the select
                                     See whether there is any input line left. If not, signal internal error.
                                  IF .input_stg_desc [dsc$w_length] LSS 0
THEN SIGNAL (PAT$_PARSEERR);
L1:1225
  INFO#252
Test expression is 267 1227
268 1228
269 1229
270 1230
271 1231
272 1232
273 1233
274 1234
275 1235
276 1236
277 1237
278 1238
279 1239
280 1240
281 1241
282 1242
  INFO#252
                             always false
2 !++
2 ! Make the
2 !--
2 input_ptr
2 lexeme_ptr
                                     Make the string pointers into formal BLISS character pointers.
                                  input_ptr = ch$ptr (.input_stg_desc [dsc$a_pointer]);
lexeme_ptr = ch$ptr (.lexeme_stg_desc [dsc$a_pointer]);
                                   ! Save the radix in case it changes temporarily.
                                  previous_radix = .PAT$gb_mod_ptr [mode_radix];
count = 0;
REPEAT
                                                                                                                               ! skip leading blanks
                                              char = ch$rchar (.input_ptr);
                                              If .char_type_table [.char] NEQ blanks
```

PA

```
F 6
16-Sep-1984 00:37:30
14-Sep-1984 12:52:36
PATLEX
VO4-000
                                                                                                     VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[PATCH.SRC]PATLEX.B32;1
   THEN
                                              BEGIN
                                              input_stg_desc [dsc$w_length] = .input_stg_desc [dsc$w_length] - .count;
EXITLOOP
END
                                     ELSE
                                              BEGIN
                                              input_ptr = ch$plus (.input_ptr, 1);
count = .count + 1;
                                              END:
                                     END:
                              Convert the mapping of the first significant character into a lexical state.
                              This state drives the later CASE processing.
                           state_index = 0;
REPEAT
                                     BEGIN
IF .lex_type_tbl [.state_index] ^ .char_type_table [.char] LSS 0
THEN
                                              BEGIN
                                              state = .lex_state_tbl [.state_index];
EXITLOOP
                                              END
                                     ELSE
                                              BEGIN
                                              state_index = .state_index + 1;
                                              If .state_index GTR max_state_index THEN
                                                       BEGIN
                                                       state = unspec_state;
EXITLOOP
                                                       END:
                                              END:
                                     END:
                                   CASE .state FROM 0 to max_state_index + 1 OF SET
                           REPEAT
                                                                                                     ! analyze current state
                                     ! if illegal, just signal
```

PA

..........

..........

```
G 6
16-Sep-1984 00:37:30
14-Sep-1984 12:52:36
PATLEX
VO4-000
                                                                                                                                     VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[PATCH.SRC]PATLEX.B32;1
                       1285
12889
12989
12993
12999
12999
13005
13007
1309
                                                [alpha_state]:
    ! alphanumeric string
                                    alpha_block:
                                                            BEGIN
                                                               This is an alphanumeric string. If the character is a period, see whether the next character is an alphabetic. If it is, this must be a logical operator
                                                               keyword, so allow the leading dot. Otherwise, it is an error.
                                                            LOCAL
                                                                        period_present;
                                                            count = 0:
                                                            IF .char EQL asc_period THEN
                                                                        BEGIN
                                                                        LOCAL
                                                                                    new_char;
                                                                        THEN
                                                                                     If .char_type_table [.new_char] EQL numeric
THEN state = numeric_state
                        ELSE state = unspec state;
STATE = UNSPEC STATE;
LEAVE alpha_block;
                                                                                                                                     ! DON'T ACCEPT NUMBERS WITH DECIMAL POINTS
                                                                        ELSE period_present = TRUE;
END
    ELSE period_present = FALSE;
                                                               Now read the input buffer until a non-alpha and non-numeric character is encountered. Store each character found in the
                                                               buffer for the lexeme unless the length of that buffer is
                                                               expended.
                                                            DO
                                                                        IF (oneof (.char_type_table [.char], alpha_low, alphalo_and_hex))
THEN char = .char - upper_case_dif;
count = .count + 1;
If .count LEQ sym_max_length
THEN ch$wchar_a (.char, lexeme_ptr);
char = ch$a_rchar (input_ptr);
                                                                        END
                                                            WHILE
                                                                        (oneof (.char_type_table [.char], alpha, alpha_low, numeric,
                                                                                                 alpha_and_hex, alphalo_and_hex, period));
                                                              Now see whether the next character is a period AND the string started with a period. In this case, store the
```

```
PATLEX
VO4-000
                                                                                                                                                                                                                               16-Sep-1984 00:37:30
14-Sep-1984 12:52:36
                                                                                                                                                                                                                                                                                                                  VAX-11 Bliss-32 V4.0-742 Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parties Parti
                                                                                                               [numeric_state]:
          ! numeric string
                                                                                                                                                 Now read the input buffer until a non-numeric character is encountered. Ignore all leading zeroes unless a decimal point was present. Store each character found in the buffer for the lexeme unless the length of that buffer is expended.
                                                                                                                                           count = 0;
                                                                                                                                            WHILE
                                                                                                                                                                        .char EQL 'O'
                                                                                                                                           DO
                                                                                                                                                                       BEGIN
                                                                                                                                                                       count = .count + 1;
                                                                                                                                                                       char = ch$a_rchar (input_ptr);
                                                                                                                                                 If the entire number was zero, put a single
                                                                                                                                                 zero in the lexeme buffer and return.
                                                                                                                                           THEN
                                                                                                                                                                       BEGIN
                                                                                                                                                                      ch$wchar (0, .lexeme_ptr);
lexeme_stg_desc [dsc$w_length] = 1;
input_stg_desc [dsc$a_pointer] = .input_ptr;
                                                                                                                                                                       RETURN digit_str_token
                                                                                                                                                                       END:
                                                                                                                                            ! This is the normal store and pick up next numeric character.
                                                                                                                                           DO
                                                                                                                                                                       BEGIN
                                                                                                                                                                       If .char_type_table [.char] EQL alphalo_and_hex
THEN char = .char - upper_case_dif;
                                                                                                                                                                       count = .count + 1;
                                                                                                                                                                      IF .count GTR num_max_length THEN
                                                                                                                                                                                                   BEGIN
                                                                                                                                                                                                  ch$wchar (.char, .lexeme_ptr-1);
                                                                                                                                                                       ELSE ch$wchar_a (.char, lexeme_ptr);
                                                                                                                                                                       char = ch$a_rchar (input_ptr);
                                                                                                                                           WHILE
                                                                                                                                                                       (oneof (.char_type_table [.char], numeric,
```

alpha_and_hex, alphalo_and_hex));

VO

P/

PA

```
PATLEX
VO4-000
                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[PATCH.SRC]PATLEX.B32;1
                                                       [radix_state]:
     ! up arrow, quote, percent sign
radix_block:
                                                                     BEGIN
                                                                                                                                                       ! MARS handling
                                                                       An up arrow can occur as a standalone character meaning previous location, or as a special character that indicates radix. In the latter case, the up arrow is followed by one of the letters 'B', 'O', or 'X', and then a numeric string (without an intervening space). First check for the letter.
                           LOCAL
                                                                                   new_char;
                                                                     char = ch$rchar (ch$plus (.input_ptr, 1));
If (oneof (.char_type_table [.char], alpha_low, alphalo_and_hex))
THEN char = .char - upper_case_dif;
If NOT ((.char EQL 'B') OR (.char EQL 'O') OR (.char EQL 'X'))
                                                                     THEN
                                                                                   BEGIN
                                                                                     This is the single character meaning previous location.
                                                                                      Just update the string descriptors, write the up arrow into the lexeme buffer, and return.
                                                                                  char = asc_up_arrow;
state = unspec_state;
LEAVE radix_block;
                                                                                   END:
                                                                       This looks like a radix indicator. If a number follows, it
                                                                        must be. In this case, set the current mode according to the radix encoding. Then leave this code block. The effect is that on the next loop through the CASE expression, control will
                                                                        stop at the numeric processing block.
                                                                     new_char = ch$rchar (ch$plus (.input_ptr, 2));
If Toneof (.char_type_table [.new_char], numeric,
                                                                                                alpha_and_hex, alphalo_and_hex))
                                                                     THEN
                                                                                   input_ptr = ch$plus (.input_ptr, 2);
INCR index FROM 0 TO radix_max 00
                                                                                                 If .char EQL .radix_equiv_tbl [.index, radix_char]
                                                                                                THEN
                                                                                                              PATSgb_mod_ptr [mode_radix] =
                                                                                                              EXITLOOP .radix_equiv_tbl [.index, radix_equiv];
                                                                                                              END:
                                                                                   char = .new_char;
                                                                                   input_stg_desc [dsc$w_length] = .input_stg_desc [dsc$w_length] - 2;
                                                                                   state = numeric_state;
LEAVE radix_block;
                                                                                   END
                                                                     ELSE
```

V

PATLEX V04-000		M 6 16-Sep-1984 00:37:30 VAX-11 Bliss-32 V4.0-742 Page 16 14-Sep-1984 12:52:36 DISK\$VMSMASTER:[PATCH.SRC]PATLEX.B32;1 (7)
550 1506 551 1507 552 1508 553 1509 554 1510 555 1511 556 1512 557 1513 558 1514	4 4 4 4 4 4 4 5 2 END;	BEGIN !++ ! This is not a radix indicator after all. Just return ! the up arrow. ! char = asc_up_arrow; state = unspec_state; LEAVE radix_block; END;

P/V

```
N 6
16-Sep-1984 00:37:30
14-Sep-1984 12:52:36
PATLEX
VO4-000
                                                                                                                                                     VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER:[PATCH.SRC]PATLEX.B32;1
                                                      [unspec_state]:
    ! special character like operator or illegal
                                                                       Most likely, this is a single character operator. Write its ASCII value into the lexeme buffer, and return its equivalent
                                                                       token.
                                                                    BEGIN
                                                                                 LOCAL
                                                                                               index;
                                                                                 index = table_offset;
                                                                                 REPEAT
                                                                                               If .char_type_table [.char] EQL .index
THEN
                                                                                                            BEGIN
                                                                                                            ch$wchar (.char, .lexeme_ptr);
lexeme_stg_desc [dsc$w_length] = 1;
input_stg_desc [dsc$a_pointer] = ch$plus (.input_ptr, 1);
input_stg_desc [dsc$w_length] = .input_stg_desc [dsc$w_length] - 1;
RETURN .token_table [.index - table_offset]
                           ELSE index = .index + 1;
If .index GTR operator_max
THEN EXITLOOP;
                                                                                               END:
                                                                                 END:
                                                                       This doesn't seem to be anything about which we know.
                                                                       SIGNAL invalid character.
                                                                    SIGNAL (PAT$_INVCHAR);
                                                                    END:
                                                      TES:
                                       END:
L1:1278
                                                                                                                                                     ! end of get_mar_lexeme
   INFO#212
  Null expression appears in value-required context
                                                                                                                             .TITLE
                                                                                                                                          PATLEX
\V04-000\
                                                                                                                              .PSECT
                                                                                                                                           _PAT$PLIT,NOWRT,NOEXE,0
                                                                                                                                                                    1: 0. 0.
16202813
15. 22.
                                                                                                                                                               4: 0:
1214.
                                                                                                     00000
0000F
0001E
0002D
0003C
                                                                                                                                          6: 0: 0:
0: 0: 0:
10. 21.
2: 2: 2.
                                                                                        00
00
14
19
                                                                                                                                                    0, 0,
0, 0,
0, 0,
1, 11,
2, 2,
                                                                                                                                                              0. 0.
24. 5
24. 2.
                                                                                                                                                                                  00
00
00
00
20
03
                                                00
00
00
20
03
                                                      00
00
01
02
03
                                                                                               06
00
00
00
16
00
00
18
0F
01
                                  04
00
10
02
03
                                                                                 00
00
04
00
17
                                                                                                               P.AAA:
                                                                                                                              .BYTE
                                                             00
00
10
02
03
                                                                    00
00
10
02
13
                                                                           00
05
02
00
       06
00
0B
0E
01
             06
00
15
02
01
                    06
00
0A
02
01
                           06
09
02
03
```

V

.......

```
PATLEX
V04-000
                                                                                                                                       VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[PATCH.SRC]PATLEX.B32;1
                                                                                                                             01
00
07
00
                                                       01
01
07
00
                                                                                                                                                            0. 0. 0
81. 77.
66. 69
53687091
                                                                                                                                               00080 P.AAB:
0008F
00094 P.AAC:
            30
                        3D
                                                                                                                                                                                     62.
                  4B
                                    53
                                                 51
                                                                                                                  .BYTE
                                                                   50
               00004000
                                                                             80000000
                               06000000
                                              20000000
                                                             51800800
                                                                                                                   . LONG
                                                                                                                              0
\B\
                                                                          02
                                                                                01
                                                                                            000AD
000AE
000AF
                                                                                                     P.AAE:
                                                                                                                  ASCII.
                                                                                                                               101
                                                                                      08
44
08
10
                                                                                            000B0
                                                                                            000B1
000B2
000B3
                                                                                                                              10
                                                                                                                              /X/
                                                                                            000B4
                                                                                                                              16
                                                                                                     CHAR TYPE TABLE =
TOKEN TABLE =
LEX_TYPE TBL =
LEX_STATE TBL =
RADIX_EQUIV_TBL =
.EXTRN
                                                                                                                                    P.AAA
                                                                                                                                    P. AAB
                                                                                                                                    P.AAC
                                                                                                                                    P.AAD
                                                                                                                                    P.AAE
                                                                                                                             PATSFAO OUT, PATSRADX CONVRT
PATSGB_DEF_MOD, PATSGB_MOD_PTR
                                                                                                                  .EXTRN
                                                                                                                              _PAT$CODE,NOWRT,2
                                                                                                                  .PSECT
                                                                                    OFFC 00000
                                                                                                                              PAT$MAR_GET_LEX, Save R2,R3,R4,R5,R6,R7,R8,-; R9,R10,R11
                                                                                                                  .ENTRY
                                                                                                                                                                                                    1074
                                                            5E
                                                                                       C2
DO
9F
                                                                                            00002
                                                                                                                  SUBL 2
                                                                                                                              #4, SP
                                                                                                                              INPUT_STG_DESC, R7
                                                                                 ACA7
BEAGAFFA
                                                                                                                  MOVL
                                                                                                                                                                                                     1231
                                                                                            00009
                                                                                                                  PUSHAB
                                                                                                                              aO(SP), INPUT PTR
LEXEME_STG_DESC, R9
                                                                                       0000C
                                                                                                                  MOVL
                                                                                            00010
                                                                                                                  MOVL
                                                                                                                                                                                                     1232
                                                                                            00014
                                                                                                                  PUSHL
                                                                                                                                                                                                     1237
1238
1241
1242
                                                            7E 0000000G
                                                                                                                  MOVZBL
                                                                                                                              aPATSGB_MOD_PTR, PREVIOUS_RADIX COUNT
                                                                                            0001E
                                                                                                                 CLRL
                                                                                            00020 1$:
00023
0002B
0002D
00030
                                                                                 6405A68A80
                                                                                                                              (INPUT_PTR), CHAR
CHAR_TYPE_TABLE[CHAR], #4
                                                                00000000'EF
                                                                                                                  CMPB
                                                                                                                  BEQL
                                                                                                                                                                                                     1245
1244
1250
1251
1238
1259
1262
                                                            67
                                                                                                                  SUBW2
                                                                                                                              COUNT, (R7)
                                                                                                                  BRB
                                                                                           00032
00034
00036
00038
00038
                                                                                       D6
D6
11
                                                                                                                              INPUT_PTR
                                                                                                                  INCL
                                                                                                                  INCL
                                                                                                                  BRB
                                                                                                                             STATE_INDEX
CHAR_TYPE_TABLE[CHAR], LEX_TYPE_TBL-
[STATE_INDEX], R1
                                                                                                                  CLRL
                                      51 00000000'EF40 00000000'EF46
                                                                                                                  ASHL
                                                                                       18
9A
11
                                                                                            00048
0004A
                                                               00000000'EF40
                                                                                                                  BGEQ
                                                                                                                              LEX_STATE_TBL[STATE_INDEX], STATE
                                                                                                                                                                                                    1265
1264
1270
1271
                                                    00
                                                                                                                  MOVZBL
                                                                                            00053
                                                                                                                  BRB
                                                                                       D6
D1
15
                                                                                            00055 58:
                                                                                                                 INCL
CMPL
BLEQ
                                                                                                                              STATE_INDEX, #4
                                                            04
                                                                                            0005A
0005C 68:
                                                    00
                                                                                                                  MOVL
                                                                                                                              #5, STATE
                                                                                                                                                                                                    1274
```

PAT VO4

					16	-Sep-1	984 00:37 984 12:52	VAX-11 Bliss-32 V4.0-742 Page DISK\$VMSMASTER:[PATCH.SRC]PATLEX.B32;1	19
0090		00 000F 01C8	OC 0200 0143	CF	00060 00065 0006D	7\$: 8\$:	CASEL .WORD	375-85,- 9\$-85,- 17\$-8\$,-	280
		2E	01F1 5A 56 18 01 A8	31 04 01 12	00071 00074 00076 00079	9\$:	BRW CLRL CMPL BNEQ	10\$	284 297 298
50	51800000	50 8F 50	00000000'EF40 CE 01	D1 12 9A 78 18 D0	00076 00079 0007B 0007F 0008C 0008E 00091		MOVZBL ASHL BGEQ MOVL BRB CLRL MOVZBL	65	305 307 316
50	01800000	51 8F	00000000°EF46	04 9A	00093	10\$: 11\$: 12\$:	ASHL	13\$	316 298 318 328
		56 1F	20 5A 5A 07	78 18 C2 D6 D1 14	000A7 000AA 000AC 000AF 000B1	13\$:	BGEQ SUBL2 INCL CMPL BGTR MOVB	145	329 330 331
	04	56 51	07 56 04 AE 58	90 06 06 9A	000B5 000B8 000BA	14\$:	INCL INCL MOVZBL	INPUT_PTR : 13 (INPUT_PTR), CHAR	332
50	71800800	8F	00000000'EF46 51 CE 5A	9A 78 19 01	000BD 000C5 000CD 000CF 000D2		MOVZBL ASHL BLSS CMPL	12\$ COUNT, #31	337
	000000000	69	006D8033 8F 01 1F 03	15 DD FB B0 11	000DA		BLEQ PUSHL CALLS MOVW BRB	#1 IRECIGNAL .	359
	08	69 BE 67 50	03 5A 58 5A 47 8F	94	000F0	15\$: 16\$:	MOVW MOVL SUBW2 MOVZBL	COUNT, (R9) : 13 INPUT_PTR, a8(SP) : 13 COUNT, (R7) : 13 #71, R0 : 13	360 356 362 363 364 365
		30	5A 56 09 5A 58 68 F2	04	000F7 000FA	17\$: 18\$:	RET CLRL CMPL BNEQ INCL	COUNT 13 CHAR, #48 13	375 377
		56 67	58 68 F2 5A	D1 12 D6 D6 9A 11 A2	000FC 000FE 00100 00103 00105 00108 0010A 00112 00114 00121 00123 00126	19\$:	MOVZEI	(INPUT PTR), CHAR	580 581 576 588
		02	00000000 EF 46	91	00108 0010A		CLRL	COUNT : 13 CHAR_TYPE_TABLE[CHAR], #2 : 13	76 888 89 90
50	10800000	8F		13 78 19 94 B0	00114		WHT SE	20\$	591
		69	04 BE 01	94 B0	00123		BRB SUBW2 CLRL CMPB BEQL ASHL BLSS CLRB MOVW	aLEXEME_PTR : 13 #1, (R9) : 13	594 595

PAT VO4

					1	7 6-Sep-19 4-Sep-19	984 00:37 984 12:52	:30 VAX-11 Bliss-32 V4.0-742 Page 36 DISK\$VMSMASTER:[PATCH.SRC]PATLEX.B32;1	ge 20 (8)
	08	BE	58 66	DO 0	00129		MOVL	INPUT_PTR, a8(SP)	1396
		5B 08	00000000'EF46	9A (00129 0012F 00137 0013A 0013C	20\$: 21\$:	MOVL BRB MOVZBL	CHAR_TYPE_TABLE[CHAR], R11	1405
		56	5B 03 20 5A	9A (0 12 (0 06 (0	0013A	210.	CMPL BNEQ SUBL2	22\$ #32, CHAR	1406
		14		D6 (0013F	22\$:	INCL	COUNT #20	1407
			04 A9	15 (00144		RIFO	23\$	
60	01 04	AO AE	13	28 (0014A		MOVC3 SUBL3	4(R9), R0 #19, 1(R0), (R0) #1, LEXEME PIR, R0	1412 1413 1414
		AE 60	04 A9 13 04 A9 13 05 07 56 04 AE 58	D0 00 00 00 00 00 00 00 00 00 00 00 00 0	00154 00157 00159		MOVL MOVC3 SUBL3 MOVB BRB MOVB	#1, LEXEME_PTR, RO CHAR, (RO) 24\$	1416
	04	BE	04 AE	90 0	00159 0015D	23\$:	INCL	CHAR, aLEXEME_PTR	
		56	58 68	9A (0015b 00160 00162 00165	24\$:	INCL MOVZBL MOVZBL	INPUT PTR (INPUT PTR), CHAR CHAR_TYPE_TABLE[CHAR], R11 R11, #813694976, R0 21\$	1417
50	30800000	56 58 8F	00000000°EF46	9A (00165 0016D 00175		MOVZBL	CHAR_TTPE_TABLE[CHAR], R11 R11, #813694976, R0	1421
			04 A9 04 A9	19 (00175 00177 0017A		ASHL BLSS PUSHL PUSHL CALLS MOVB MOVW	4(RY)	1429
	000000006	EF	04 A9	FR (0017D		PUSHL	4(R9) #2, PAT\$RADX_CONVRT	:
	0000000G	FF 69	6E 04	90 (B)	00184 0018B		MOVB	PREVIOUS_RADIX, @PAT\$GB_MOD_PTR #4, (R9)	1430
	08	BE 67 50	04 A9 04 A9 02 6E 04 58 5A 48 8F	DO (00184 0018B 0018E 00192		SUBW2	#2, PAT\$RADX_CONVRT PRÉVIOUS_RADIX, @PAT\$GB_MOD_PTR #4, (R9) INPUT_PTR, @8(SP) COUNT, (R7)	1432 1433 1434
		50		9A (00195 00199 0019A	25\$:	MOVZBL RET	#/2, RU	:
	08	BE	01 A8 67 63 8F	9E (0019C	26\$:	CLRW MOVAB	(R9) 1(R8), a8(SP)	1444
		50	63 8F	9A (001A1 001A3		MOVZBL	(R7) #99, R0	1446
50	01800000	56 8F	00000000'EF46	9A (001A7 001A8	27\$:	MOVZBL ASHI	1(INPUT_PTR), CHAR CHAR_TYPE_TABLE[CHAR], #25165824, RO	1463
,,	01000000		03	78 (18 (c2 (00189 00188		ASHL BGEQ SUBL2	28\$ #32, CHAR	1465
	00000042	56 8F	56 1B	D1 (001AC 001B9 001BB 001BE	28\$:	CMPL BEQL	CHAR, #66 29\$	1466
	0000004F	8F	56 12	D1 (001C7 001CE		CMPL	CHAR, #79 29\$	
	00000044	8F	56 09	D1 (00100 00107		BEQL CMPL BEQL	CHAR, #68 29\$	
	00000058	8F	56	D1 (001D9		CMPL BNEQ	CHAR, #88	
50	30800000	51 8F	0000000 EF41	12 (9A (78 (18 (001E0 001E2 001E6	29\$:	MOVZBL	2(INPUT_PTR), NEW_CHAR CHAR_TYPE_TABLE[NEW_CHAR], #813694976, RO	1486
		58	31 02	CO (001F5		ADDL2	#2, INPUT_PTR	1491
			00000000 EF 40	3F (001F8 001FA	30\$:	PUSHAW	INDEX RADIX_EQUIV_TBL[INDEX]	1493
9E	00000000	08	00 0E	12 (00201 00206		CMPZV BNEQ	#0, #8, a(SP)+, CHAR 31\$	1/07
	0000000G	f f	00000000 EF 40	11	00208 00214		CVTWB BRB	RADIX_EQUIV_TBL+1[INDEX], @PAT\$GB_MOD_PTR 32\$	1497

.........

PATLEX V04-000			E 7 16-Sep-1984 00:37:30 VAX-11 Bliss-32 V4.0-742 Pa 14-Sep-1984 12:52:36 DISK\$VMSMASTER:[PATCH.SRC]PATLEX.B32;1	ige 21 (8)
	E0	50 03 56 51 67 02	F3 00216 31\$: AOBLEQ #3, INDEX, 30\$ D0 0021A 32\$: MOVL NEW_CHAR, CHAR A2 0021D SUBW2 #2, (R7) D0 00220 MOVL #2, STATE 11 00224 BRB 38\$ 9A 00226 33\$: MOVZBL #94, CHAR 31 0022A BRW 6\$; 1493 ; 1500 ; 1501 ; 1502 ; 1503 ; 1511 ; 1512 ; 1523
	OC	AE 02	DO 0021A 32\$: MOVL NEW_CHAR, CHAR A2 0021D SUBW2 #2, (R7) DO 00220 MOVL #2, STATE 11 00224 BRB 38\$	1502
		56 5E 8F	9A 00226 338: MOVZBL #94, CHAR 31 0022A BRW 68	1511
		51 00000000 FE2F 09 51	9A 0022D 34\$: MOVZBL CHAR_TYPE_TABLE[CHAR], R1 91 00235 CMPB R1, #9	1523
		1C 2B	1F 00238 BLSSU 37\$ 91 0023A CMPB R1, #28	: 1524
		50 09 50 51	9A 00226 33\$: MOVZBL	1531
	04	17	12 00245 BNEQ 36\$ 90 00247 MOVB CHAR, QLEXEME_PTR	
	08	BE 56 69 01 BE 01 A8 67	BO 0024B MOVW #1, (R9) 9E 0024E MOVAB 1(R8), @8(SP)	1537 1538 1539 1540 1541
		50 00000000 EF40	B7 00253 DECW (R7) 9A 00255 MOVZBL TOKEN_TABLE-9[INDEX], R0 04 0025D RET	1541
		1C 50 50 DD 006D80D2 8F 01 FDEB	9A 0022D 34\$: MOVZBL CHAR_TYPE_TABLE[CHAR], R1 91 00235 1F 00238 91 0023A CMPB R1, #28 1A 0023D BGTRU 37\$ D0 0023F MOVL #9, INDEX D1 00242 35\$: CMPL R1, INDEX 12 00245 BNEQ 36\$ 90 00247 MOVB CHAR, @LEXEME_PTR B0 0024B MOVW #1, (R9) 9E 0024E MOVAB 1(R8), @8(SP) DECW (R7) B7 00253 MOVZBL TOKEN_TABLE-9[INDEX], R0 RET D6 0025E 36\$: INCL INDEX D1 00260 CMPL INDEX, #28 D1 00265 37\$: PUSHL #7176402 FB 0026B CALLS #1, LIB\$SIGNAL	1543
E .	000000006	00 006D80D2 8F	15 00263 BLEQ 35\$ DD 00265 37\$: PUSHL #7176402 FB 0026B CALLS #1, LIB\$SIGNAL 31 00272 38\$: BRW 7\$	1553
	00000000	FDEB	DD 00265 37\$: PUSHL #7176402 FB 0026B CALLS #1, LIB\$SIGNAL 31 00272 38\$: BRW 7\$: 1280

; Routine Size: 629 bytes. Routine Base: _PAT\$CODE + 0000

PATLEX VO4-000 16-Sep-1984 00:37:30 14-Sep-1984 12:52:36 VAX-11 Bliss-32 V4.0-742 Page 22 DISK\$VMSMASTER:[PATCH.SRC]PATLEX.B32;1 (9) 605 ! End of module .EXTRN LIB\$SIGNAL PSECT SUMMARY Name Bytes Attributes 181 NOVEC, NOWRT, RD , NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(0) 629 NOVEC, NOWRT, RD , EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) PAT\$CODE Library Statistics ----- Symbols -----Pages Processing File Percent Mapped Total Loaded Time _\$255\$DUA28:[SYSLIB]LIB.L32:1 18619 6 1000 00:01.9 : Information: : Warnings: : Errors: 200 COMMAND QUALIFIERS BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/VARIANT:1/LIS=LIS\$:PATLEX/OBJ=OBJ\$:PATLEX MSRC\$:PATLEX/UPDATE=(ENH\$:PATLEX) Size: 629 code + 181 data bytes 00:26.9 01:23.5 3478 Run Time: Elapsed Time: Lines/CPU Min: Lexemes/CPU-Min: 35021 Memory Used: 282 pages Compilation Complete

0302 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

